California Citrus Clonal Protection Program
Procedure and Timeline for the Introduction of New Varieties (Including Contract Cleanup)

Month 1
1A.) PRE-INDEX
Tristeza
Psorosis
Citrus Viroids

1B.) PRIMARY INCREASE
Pre-index and primary increase trees started simultaneously
Four source trees made with budwood grafted onto rough lemon rootstocks

Month 6
2.) THERAPY
Graft transmissible diseases detected in the pre-index are eliminated by shoot-tip-grafting (STG) and/or thermal therapy.
The use of both methods of therapy add approximately one year more to quarantine time

2A.) SHOOT-TIP-GRAFTING
STG effective in eliminating graft transmissible disease agents including viroids

2B.) THERMAL THERAPY
Thermal therapy is effective in eliminating graft transmissible disease agents except for viroids.
Thermal therapy is used for all introductions of origin outside of California

Month 12
3.) INDEX OF THERAPY PROPAGATION
Budwood is graft inoculated onto indicator plants - mexican lime, sweet orange and citron to determine if all diseases have been eliminated.

3A.) THERAPY SUCCESS
Index negative for graft transmissible disease the introduction enters into the Variety Introduction Index

3B.) THERAPY FAILURE
ELISA is also used
Index positive for disease (Return to Step 2)

Month 18

Month 24
4.) VARIETY INTRODUCTION (VI) INDEX
The VI Index is started in the fall of each year.
After a variety introduction is found to test free of all bud transmissible diseases in The VI Index, budwood source trees are produced in quarantine for field planting

Month 30
5.) QUARANTINE RELEASE
CCPP must apply to the California Department of Food and Agriculture (CDFA) and the United States Department of Agriculture (USDA) for State and Federal Quarantine Releases.
With quarantine release CCPP is permitted to move budwood source trees from quarantine in Riverside to the Lindcove Foundation Block

Month 36